

Variable	Mean	SD	Min	Max
Age	34.5	10.2	21	55
Gender	Male	10.1	0	10
Marital status	Married	10.1	0	10
Education	High school	10.1	0	10
Occupation	Unemployed	10.1	0	10
Income	Low	10.1	0	10
Health status	Good	10.1	0	10
Smoking status	Non-smoker	10.1	0	10
Alcohol consumption	Non-drinker	10.1	0	10
Exercise frequency	Low	10.1	0	10
Stress level	Low	10.1	0	10
Sleep quality	Good	10.1	0	10
Appetite	Good	10.1	0	10
Weight change	Stable	10.1	0	10
Blood pressure	Normal	10.1	0	10
Blood sugar	Normal	10.1	0	10
Cholesterol	Normal	10.1	0	10
Triglycerides	Normal	10.1	0	10
Hemoglobin A1c	Normal	10.1	0	10
Uric acid	Normal	10.1	0	10
Creatinine	Normal	10.1	0	10
Proteinuria	None	10.1	0	10
Renal function	Good	10.1	0	10
Cardiac function	Good	10.1	0	10
Lung function	Good	10.1	0	10
Liver function	Good	10.1	0	10
Pancreas function	Good	10.1	0	10
Gallbladder function	Good	10.1	0	10
Intestine function	Good	10.1	0	10
Stomach function	Good	10.1	0	10
Bladder function	Good	10.1	0	10
Reproductive function	Good	10.1	0	10
Immune system	Good	10.1	0	10
Nervous system	Good	10.1	0	10
Musculoskeletal system	Good	10.1	0	10
Skin	Good	10.1	0	10
Hair	Good	10.1	0	10
Nails	Good	10.1	0	10
Teeth	Good	10.1	0	10
Overall health	Good	10.1	0	10

**DOCUMENT DISTRIBUTION SYSTEM AND METHOD WITH
CONSOLIDATED DOCUMENT SERVICES MANAGEMENT**

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The Field of the Invention

The present invention relates generally to document services and, more particularly, to a system and method of managing document distribution services of a plurality of document distribution providers and distributing a document with such services.

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Background of the Invention

Typically, a user of a personal computer has multiple services or options available to them for distributing a document from the computer. The user, for example, may print the document at a printer, send the document electronically via e-mail, or publish the document with print publishing services. To be able to utilize such services, however, the user must be aware of such services and, more importantly, a program or driver for each of the services must be installed on the computer.

Unfortunately, managing such services on a plurality of individual computers is a laborious task. Each service, for example, must be deployed, installed, configured, and maintained on each computer. Understandably, management of such services is augmented by the number of distribution services being provided as well as the number of users or computers needing access to such services. In addition, the user may not be aware of all of the available services and, therefore, all of the available options for distributing of the document.

Accordingly, a need exists for managing document distribution services of a plurality of document distribution providers and providing a user with access to such services. More particularly, a need exists for consolidating management of as well as access to the document distribution services.

Summary of the Invention

One aspect of the present invention provides a method of distributing a document of a user. The method includes registering document distribution services of a plurality of document distribution providers, receiving a
5 distribution request for the document from the user, compiling a list of distribution options for the document based on the document distribution services of the document distribution providers, and presenting the list of distribution options for the document to the user.

Another aspect of the present invention provides a computer-readable
10 medium having computer-executable instructions for performing a method of distributing a document of a user. The method includes registering document distribution services of a plurality of document distribution providers, receiving a distribution request for the document from the user, compiling a list of distribution options for the document based on the document distribution
15 services of the document distribution providers, and presenting the list of distribution options for the document to the user.

Another aspect of the present invention provides a system for distributing a document of a user. The system includes a memory device configured to have document distribution services of a plurality of document distribution providers
20 stored therein and a processor adapted to compile a list of distribution options for the document based on the document distribution services of the document distribution providers.

Another aspect of the present invention provides a method of managing document distribution services. The method includes registering the document
25 distribution services, presenting the document distribution services to a user having a document, and receiving a distribution selection for the document from the user. As such, the distribution selection specifies at least one document distribution service of the document distribution services.

Another aspect of the present invention provides a computer-readable
30 medium having computer-executable instructions for performing a method of managing document distribution services. The method includes registering the

document distribution services, presenting the document distribution services to a user having a document, and receiving a distribution selection for the document from the user. As such, the distribution selection specifies at least one document distribution service of the document distribution services.

5 Another aspect of the present invention provides a system for managing document distribution services. The system includes a document distribution system controller configured to have the document distribution services registered therewith. As such, the document distribution system controller is adapted to present the document distribution services to a user having a
10 document and receive a distribution selection for the document from the user, wherein the distribution selection specifies at least one document distribution service of the document distribution services.

 In one embodiment, the present invention provides a system and method of managing document distribution services of a plurality of document
15 distribution providers, including distributing a document of a user with such services. The system and method utilizes a communication network linking the user, the document distribution providers, and a controller of the system to efficiently manage the document distribution services and route the document to the document distribution providers.

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Brief Description of the Drawings

Figure 1 is a block diagram illustrating one exemplary embodiment of a document distribution system according to the present invention.

Figure 2 is a block diagram illustrating one exemplary embodiment of
25 information flow through a portion of the document distribution system of Figure 1.

Figure 3 is a block diagram illustrating one exemplary embodiment of information flow through another portion of the document distribution system of Figure 1.

30 Figure 4 is a diagram illustrating one exemplary embodiment of a user interface of the document distribution system of Figure 1.

Figure 5 is a block diagram illustrating one exemplary embodiment of information flow through the document distribution system of Figure 1.

Figure 6 is a block diagram illustrating one exemplary embodiment of document services management of the document distribution system of Figure 1.

5 Figure 7 is a flow diagram illustrating one exemplary embodiment of a method of distributing a document according to the present invention.

Figure 8 is a flow diagram illustrating one exemplary embodiment of a method of managing document distribution services according to the present invention.

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Description of the Preferred Embodiments

In the following detailed description of the preferred embodiments, reference is made to the accompanying drawings which form a part hereof, and in which is shown by way of illustration specific embodiments in which the invention may be practiced. It is to be understood that other embodiments may be utilized and structural or logical changes may be made without departing from the scope of the present invention. The following detailed description, therefore, is not to be taken in a limiting sense, and the scope of the present invention is defined by the appended claims.

20 A document distribution system according to the present invention is illustrated generally at 10 in Figure 1. Document distribution system 10 facilitates distribution of a document 12 of a user 14 to a document distribution provider 16 offering a document distribution service 18. In particular, document distribution system 10 manages distribution of a document 12a, 12b of a
25 respective user 14a, 14b to at least one document distribution provider 16a, 16b, 16c offering a document distribution service 18a, 18b, 18c, respectively. For clarity, document 12a, 12b, user 14a, 14b, document distribution provider 16a, 16b, 16c, and document distribution service 18a, 18b, 18c are referred to hereinafter as document 12, user 14, document distribution provider 16, and
30 document distribution service 18, respectively.

User 14 may be one of a plurality of users 20 each having a respective document 12. Document distribution provider 16 may be one of a plurality of document distribution providers 22 collectively providing document distribution services 24. As such, document distribution system 10 manages document
5 distribution services 24 of document distribution providers 22 and routes documents 12 of users 20 to document distribution providers 22 for distribution via document distribution services 24, as described below.

Document 12, as used herein, is defined to include any information presented in textural and/or graphical form. User 14, as used herein, is defined
10 to include an entity or entities such as a consumer, an employee, or a system requesting, soliciting, and/or using distribution services for a document. Document distribution provider 16, as used herein, is defined to include an entity, device, or system offering and/or providing distribution services for a document. Document distribution service 18, as used herein, is defined to
15 include any distribution, delivery, display, and/or dissemination services for a document such as print services, electronic mail services, and/or publishing services.

Document distribution providers 22 include hardware, software, firmware, or a combination of these. In one preferred embodiment, document
20 distribution providers 22 include a computer server or other microprocessor based system capable of performing a sequence of logic operations. In addition, document distribution providers 22 can include a microprocessor embedded system/appliance incorporating tailored appliance hardware and/or dedicated single purpose hardware.

Document distribution system 10 includes a document distribution
25 system controller 26 which manages and/or coordinates distribution of documents 12 to document distribution providers 22. More specifically, document distribution system controller 26 registers document distribution services 24 of document distribution providers 22, presents document
30 distribution services 24 to users 20, and distributes documents 12 of users 20 to document distribution providers 22 offering document distribution services 24

selected by users 20, as described below. As such, document distribution system controller 26 facilitates management of document distribution services 24.

Document distribution system controller 26 includes hardware, software, firmware, or a combination of these. In one preferred embodiment, document distribution system controller 26 includes a host processor 27. Host processor 27 can be or can be included in a computer server or other microprocessor based system capable of performing a sequence of logic operations. In addition, document distribution system controller 26 can include a microprocessor embedded system/appliance incorporating tailored appliance hardware and/or dedicated single purpose hardware.

In one exemplary embodiment, document distribution system controller 26 includes a memory device 28 which stores information for document distribution system controller 26 and/or document distribution system 10. Examples of memory device 28 include non-volatile memory (e.g., a hard disk drive or other persistent storage device) and may include volatile memory (e.g., random access memory (RAM)). Another example of memory device 28 may include a relational database management server (RDBMS). While memory device 28 is presented as part of document distribution system controller 26, it is within the scope of the present invention for memory device 28 to be separate from document distribution system controller 26.

Users 20, document distribution providers 22, and document distribution system controller 26 communicate with each other via a communication network 30. More specifically, communications between users 20, and document distribution system controller 26, communications between document distribution providers 22 and document distribution system controller 26, and communications between users 20 and document distribution providers 22 are conducted over communication network 30. Communication network 30, as used herein, is defined to include a local-area network (LAN) and/or a wide-area network (WAN). Communication network 30, therefore, may include an intranet communication network, and Internet communication network, or

similar high-speed communication network including a wireless communication network.

In one exemplary embodiment, users 20, document distribution providers 22, and document distribution system controller 26 are located remote from each other (i.e., at different location). Thus, communications between users 20, document distribution providers 22, and document distribution system controller 26 are conducted over communication network 30. It is, however, within the scope of the present invention for users 20, document distribution providers 22, and/or document distribution system controller 26 to be located at the same location. Thus, users 20, document distribution providers 22, and/or document distribution system controller 26 may communicate in other manners (e.g., a direct connection or communication link).

Components of document distribution system 10, including document distribution providers 22 and/or document distribution system controller 26, can be implemented in hardware via a microprocessor, programmable logic device, or state machine, in firmware, or in software within a given device. In one embodiment, at least a portion of the software programming is written in JAVA programming language, and each of the main components communicate via communication network 30 using a communication bus protocol. For example, the present invention may or may not use a TCP/IP protocol suite for data transport. Other programming languages and communication bus protocols suitable for use with document distribution system 10 will become apparent to those skilled in the art after reading the present application.

As illustrated in Figure 2, document distribution providers 22 register document distribution services 24 with document distribution system controller 26 via communication network 30. More specifically, each document distribution provider 16a, 16b, 16c registers a respective document distribution option 32a, 32b, 32c representing a respective document distribution service 18a, 18b, 18c with document distribution system controller 26. For clarity, document distribution options 32a, 32b, 32c are referred to hereinafter as document distribution options 32.

In one illustrative embodiment, document distribution providers 22 include a printer 221, an electronic mail application 222, and a print service provider 223. As such, document distribution services 24 include print services 241, e-mail services 242, and publishing services 243, respectively. Printer 221, as used herein, is defined to include a printing device capable of producing printed output, including textural and/or graphical images, on a print medium, such as paper, in response to electronic signals. Examples of such a printing device include a laser printer, an inkjet printer, etc. Electronic mail application 222, as used herein, is defined to include a system for transmitting messages electronically. Print service provider 223, as used herein, is defined to include an entity, device, or system offering, providing, and/or assisting in printing services, finishing services, delivery services, and/or other print processing services.

As illustrated in Figure 3, user 14 interacts with a computer 34 to initiate distribution of document 12. In one exemplary embodiment, user 14 enters document distribution system 10 and, therefore, initiates distribution of document 12 by selecting "FILE/PRINT..." in a program or application running on computer 34 and by selecting document distribution system 10, or an application incorporating document distribution system 10, as the "NAME" of the printer. Thus, document distribution system 10 is launched by software installed on computer 34.

In one exemplary embodiment, computer 34 runs an operating system which can support one or more applications. The operating system is stored in memory and executes on a processor. The operating system is preferably a multi-tasking operating system which allows simultaneous execution of multiple applications, although aspects of the present invention may be implemented using a single-tasking operating system. Computer 34 may include, for example, an input device such as a keyboard and/or a mouse and a display device such as a monitor, as is well known in the art. Computer 34 may be an appliance such as a personal digital assistant (PDA), scanner, camera, cellular phone, etc.

When user 14 enters document distribution system 10, a distribution request 36 is submitted to document distribution system controller 26 via communication network 30. In addition, a data file 38 for document 12 is uploaded to document distribution system controller 26 via communication network 30. In one exemplary embodiment, document distribution system controller 26 communicates with and transfers data file 38 for document 12 to memory device 28 (Figure 1). As such, memory device 28 stores data file 38 for document 12 for subsequent retrieval and processing, as described below.

In one exemplary embodiment, data file 38 for document 12 is converted into a standard or predetermined file format. The standard or predetermined file format is defined so as to be compatible with document distribution services 24 of document distribution providers 22. Thus, user 14 can consider all document distribution services 24 for document 12. An example of a standard or predetermined file format includes a PDF (Portable Document Format) file format.

Preferably, data file 38 is converted into a standard or predetermined file format by computer 34 before uploading to document distribution system controller 26. It is, however, within the scope of the present invention for data file 38 to be converted into a standard or predetermined file format by document distribution system controller 26 after uploading.

When distribution request 36 is submitted to document distribution system controller 26, document distribution system controller 26 compiles a list 40 of distribution options 32 for document 12. List 40 of distribution options 32 is based on document distribution services 24 as registered with document distribution system controller 26. As such, list 40 of distribution options 32 is presented to user 14 via communication network 30 and computer 34.

In one exemplary embodiment, as illustrated in Figure 4, distribution options 32 are presented to user 14 via a user interface 42 displayed on computer 34. User interface 42 includes a plurality of input fields 44 which represent distribution options 32. As such, user 14 selects distribution options 32 for document 12 by interacting with input fields 44. Input fields 44 include, for

example, a “Print Document” field 46, a “Send Document” field 48, and a
“Publish Document” field 50.

Print Document field 46 represents distribution of document 12 by
printing. Selection of Print Document field 46, therefore, indicates printing of
5 document 12 with, for example, print services 241 of printer 221 (Figure 2). In
one exemplary embodiment, Print Document field 46 includes subfields 461
which represent different printers for printing of document 12.

Send Document field 48 represents distribution of document 12 via
electronic mail. Selection of Send Document field 48, therefore, indicates
10 sending of document 12 via, for example, e-mail services 242 of electronic mail
application 222 (Figure 2). In one exemplary embodiment, Send Document field
48 includes subfields 481 which represent different e-mail addresses to which
document 12 can be distributed or sent.

Publish Document field 50 represents distribution of document 12 by
publishing. Selection of Publish Document field 50, therefore, indicates
15 publishing of document 12 via, for example, publishing services 243 of print
service provider 223 (Figure 2).

In one exemplary embodiment, input fields 44 include a “Preview
Document” field 52. Preview Document field 52 represents distribution of
20 document 12 by displaying of document 12 on, for example, a display device of
computer 34. Thus, distribution options 32 for document 12 include, for
example, previewing of document 12, printing of document 12, sending of
document 12, and/or publishing of document 12. It is understood that one or
more distribution options 32 may be selected and/or specified for document 12.

It is to be understood that Figure 4 is a simplified illustration of one
exemplary embodiment of user interface 42. The illustrative presentation of
input fields 44 including the respective subfields, for example, has been
simplified for clarity of the invention. Input fields 44, including the respective
subfields, may be presented, for example, as open fields, pull-down menus,
25 toggle selections, and/or highlighted or framed selections. In addition, user
interface 42 may be presented, for example, in one or more screens or views.

As illustrated in Figure 5, user 14 submits a distribution selection 54 for document 12 to document distribution system controller 26 via communication network 30. Distribution selection 54 represents a selection of distribution options 32 from user interface 42. As such, distribution selection 54 identifies one or more distribution options 32 for document 12. Thus, document distribution system controller 26 routes or distributes data file 38 for document 12 to one or more document distribution providers 22. Document distribution system controller 26 routes data file 38 to document distribution providers 22 offering document distribution services 24 which fulfill distribution options 32 selected by user 14. In one exemplary embodiment, data file 38 is routed to document distribution providers 22 via communication network 30.

In one exemplary embodiment, user 14 also submits a distribution instruction 56 to document distribution system controller 26 via communication network 30. Distribution instruction 56 includes one or more instructions for distribution of document 12 by document distribution providers 22. Thus, distribution instruction 56 includes one or more instructions relevant to document distribution services 24 which fulfill distribution options 32 selected by user 14.

For example, if user 14 selects printing of document 12, distribution instruction 56 may include properties and/or options for print services 241 of printer 221 such as number of copies, print medium size/type, printing quality/resolution, printing layout/orientation, color printing, etc. For example, if user 14 selects sending of document 12, distribution instruction 56 may include properties and/or options for e-mail services 242 of electronic mail application 222 such as classification, priority, reply request, delivery date, return notification, password protection, etc. For example, if user 14 selects publishing of document 12, distribution instruction 56 may include properties and/or options for publishing services 243 of print service provider 223 such as number of copies, print medium size/type/color, printing quality/resolution, printing layout/orientation, color printing, finishing/binding, etc.

After receiving data file 38, document distribution providers 22 distribute document 12 accordingly. For example, if user 14 selects printing of document 12, document distribution system controller 26 routes data file 38 to printer 221 which prints document 12 with print services 241. For example, if user 14
5 selects sending of document 12, document distribution system controller 26 routes data file 38 to electronic mail application 222 which sends document 12 with e-mail services 242. In addition, if user 14 submits distribution instruction 56, document distribution providers 22 distribute document 12 in accordance with distribution instruction 56, as described above.

10 In one exemplary embodiment, as illustrated in Figure 6, document distribution system 10 includes a system administrator 58 which manages document distribution system 10. More specifically, system administrator 58 manages document distribution services 24 of document distribution providers 22 registered with document distribution system controller 26. Thus, system
15 administrator 58 interacts with document distribution system controller 26 and/or document distribution providers 22 to deploy, install, configure, and/or maintain document distribution services 24.

To manage document distribution services 24, system administrator 58 submits a management instruction 60 to document distribution system controller
20 26. Management instruction 60 includes one or more instructions for management of document distribution services 24. Thus, management instruction 60 includes, for example, deployment, installation, configuration, and/or maintenance information, commands, inquires, etc. Preferably, system administrator 58 interacts with and submits management instruction 60 to
25 document distribution system controller 26 via communication network 30. It is, however, within the scope of the present invention for system administrator 58 to directly interact with document distribution system controller 26 as represented by dashed line 62.

In one exemplary embodiment, document distribution system
30 administrator 58 includes hardware, software, firmware, or a combination of these. As such, document distribution system administrator 58 can include a

computer server or other microprocessor based system capable of performing a sequence of logic operations, including management of document distribution services 24.

With document distribution services 24 of document distribution
5 providers 22 registered with document distribution system controller 26,
document distribution system 10 facilitates management of document
distribution services 24. More specifically, since document distribution services
24 are registered with document distribution system controller 26, document
distribution services 24 can be centrally-managed at document distribution
10 system controller 26. As such, it is not necessary to install and maintain
document distribution services 24 of document distribution providers 22 at
computer 34 for user 14. Thus, management of document distribution services
24, including, for example, deployment, installation, configuration, and/or
maintenance, is consolidated.

15 Since document distribution services 24 are registered with document
distribution system controller 26, document distribution services 24 can be
managed and made available to user 14 without affecting a configuration of
computer 34. For example, new document distribution services 24 can be
registered with document distribution system controller 26 and, therefore, added
20 to document distribution system 10 without having to deploy and install
document distribution services 24 on computer 34. Thus, new document
distribution services 24 can be made available to user 14 without changing the
configuration of computer 34.

In Figure 7, a flow diagram illustrating one exemplary embodiment of a
25 method of distributing document 12 according to the present invention is
illustrated generally at 100. Reference is also made to Figures 1-6. At step 110,
document distribution services 24 of respective document distribution providers
22 are registered with document distribution system controller 26. More
specifically, distribution options 32 of document distribution services 24 are
30 registered with document distribution system controller 26 via communication
network 30, as illustrated in Figure 2. In one illustrative embodiment, step 110

includes registration of print services 241, e-mail services 242, and publishing services 243 of printer 221, electronic mail application 222, and print service provider 223, respectively.

At step 112, user 14 submits distribution request 36 and data file 38 for document 12 to document distribution system controller 26. In one exemplary embodiment, user 14 submits distribution request 36 and uploads data file 38 to document distribution system controller 26 via communication network 30, as illustrated in Figure 3.

Preferably, document distribution services 24 of document distribution providers 22 are registered at step 110 before user 14 submits distribution request 36 and/or data file 38 at step 112. It is, however, within the scope of the present invention for document distribution services 24 to be re-registered and/or updated if, for example, document distribution services 24 are added, deleted, and/or modified. As such, document distribution services 24 can be managed or maintained at document distribution system controller 26.

Next, in step 114, after document distribution system controller 26 receives distribution request 36, document distribution system controller 26 determines which distribution options 32 are available for document 12. Distribution options 32 are based on document distribution services 24 registered with document distribution system controller 26 in step 110. As such, document distribution system controller 26 compiles list 40 of distribution options 32 for user 14.

Next, in step 116, distribution options 32, as determined in step 114 and compiled in list 40, are presented to user 14. In one exemplary embodiment, distribution options 32 are presented to user 14 via communication network 30 and computer 34, as illustrated in Figure 3. As such, distribution options 32 are represented on user interface 42, as illustrated in Figure 4.

Next, in step 118, user 14 selects one or more distribution options 32 for document 12. In one exemplary embodiment, distribution options 32 are selected by interacting with user interface 42. Thus, distribution selection 54 is conveyed to document distribution system controller 26, as illustrated in Figure

5. In addition, selecting distribution options 32 in step 118 may also include submitting distribution instruction 56 for document 12, as described above.

Next, in step 120, document distribution system controller 26 routes or distributes data file 38 and, if submitted, distribution instruction 56 for document 12 to one or more document distribution providers 22. Document distribution system controller 26 routes data file 38 and distribution instruction 56 to document distribution providers 22 offering document distribution services 24 which fulfill distribution options 32 selected by user 14 in step 118. Thereafter, in step 122, document distribution providers 22 distribute document 12 in accordance with distribution options 32 selected by user 14 in step 118 and distribution instruction 56 submitted by user 14.

In one exemplary embodiment, data file 38 and distribution instruction 56 are routed to document distribution providers 22 via communication network 30, as illustrated in Figure 5. In addition, when data file 38 for document 12 is uploaded to document distribution system controller 26 in step 112, document distribution system controller 26 stores data file 38 in memory device 28, as described above. Thus, document distribution system controller 26 retrieves data file 38 from memory device 28 to distribute data file 38 in step 120.

In Figure 8, a flow diagram illustrating one exemplary embodiment of a method of managing document distribution services 24 according to the present invention is illustrated generally at 200. Reference is also made to Figures 1-7. At step 210, document distribution services 24 of respective document distribution providers 22 are registered with document distribution system controller 26, in a manner similar to that described above in step 110. Thus, at step 212, system administrator 58 manages document distribution services 24 of document distribution providers 22. More specifically, system administrator 58 manages document distribution services 24 at document distribution system controller 26, as described above. Thus, it is not necessary for system administrator 58 to deploy, install, configure, and/or maintain document distribution services 24 of document distribution providers 22 at each computer 34.

In one exemplary embodiment, steps 110-122 of method 100 and/or steps 210 and 212 of method 200 are performed via computer-executable instructions of a computer-readable medium. Computer-readable medium, as used herein, is defined to include any kind of computer memory such as a floppy disk,
5 conventional hard disk, CD-ROM, Flash ROM, nonvolatile ROM, RAM, etc.

By having document distribution services 24 of document distribution providers 22 registered with document distribution system controller 26, document distribution system 10 provides a consolidated system for accessing as well as managing document distribution services 24. More specifically,
10 document distribution system 10 presents user 14 with a plurality of document distribution services 24 and, therefore, a plurality of distribution options 32 for document 12. As such, user 14 can specify one or more distribution options 32 for document 12 by accessing one system. Document 12, therefore, can be simultaneously distributed with multiple services. Thus, it is not necessary for
15 user 14 to access multiple systems to distribute document 12. In addition, system administrator 58 can manage document distribution services 24 centrally at document distribution system controller 26 rather than individually at each computer 34. Thus, management of document distribution services 24, including, for example, deployment, installation, configuration, and/or
20 maintenance, is simplified.

Although specific embodiments have been illustrated and described herein for purposes of description of the preferred embodiment, it will be appreciated by those of ordinary skill in the art that a wide variety of alternate and/or equivalent implementations calculated to achieve the same purposes may
25 be substituted for the specific embodiments shown and described without departing from the scope of the present invention. Those with skill in the chemical, mechanical, electro-mechanical, electrical, and computer arts will readily appreciate that the present invention may be implemented in a very wide variety of embodiments. This application is intended to cover any adaptations or
30 variations of the preferred embodiments discussed herein. Therefore, it is manifestly intended that this invention be limited only by the claims and the

equivalents thereof.